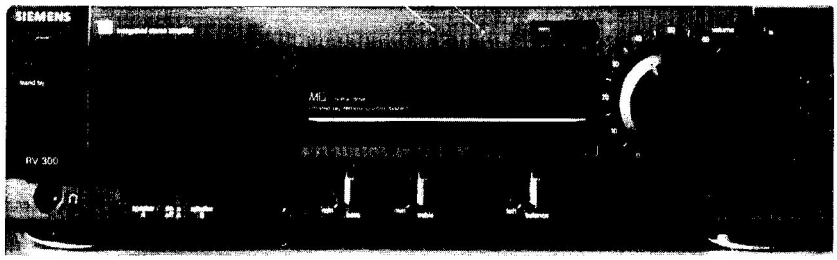
SIEMENS



Verstärker RV300R4
Amplifier RV300R4

Kundendienstschrift
Service manual

Vervielfältigungen dieser Unterlage sowie Verwertung und Mitteilung ihres Inhaltes sind, soweit nicht ausdrücklich zugestanden, unzulässig. Zuwiderhandlungen sind strafbar und verpflichten zu Schadenersatz (LitUrG, UWG, BGB).
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ALLGEMEINE TECHNISCHE ANGABEN

Netzteil

Energieversorgung: 220 V/50 Hz
Max. Energiebedarf: 240 Wh
Sicherungen: 1.6 A/250 V
63 mA/250 V

Verstärker

NF-Ausgangsleistung (1 KHz/K3 = 0.9 %) = 2 X > 50 W
Verzerrungen bei halber Sinusleistung: < 0.1 %
Übersprechdämpfung (20 Hz . . . 20 KHz): > 40 dB

Funktion	Frequenzgang	Signal-Rausch-abstand	Signal-Brumm-abstand
Phono	30 Hz . . . 20 KHz	> 65 dB	> 60 dB
CD	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Aux	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tuner	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tape 1	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tape 2	20 Hz . . . 40 KHz	> 85 dB	> 80 dB

GENERAL TECHNICAL DATA

Power supply unit

Power supply: 220 V/50 Hz
Power consumption: 240 Wh
Fuses: 1.6 A/250 V
63 mA/250 V

Amplifier

AF-Power output (1 KHz/K3 = 0.9 %) = 2 X > 50 W
Distortion at ½ sine power: < 0.1 %
Crosstalk attenuation (20 Hz . . . 20 KHz): > 40 dB

Function	Frequency -response	S/N -ratio	Signal -to-hum ratio
Phono	30 Hz . . . 20 KHz	> 65 dB	> 60 dB
CD	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Aux	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tuner	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tape 1	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tape 2	20 Hz . . . 40 KHz	> 85 dB	> 80 dB

Ausgabe/Issue 90/42

Ident-Nr./Order-No. 53 5403

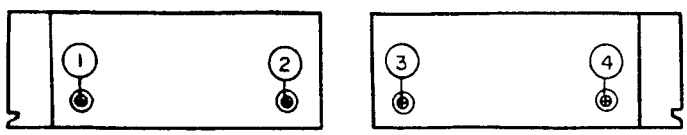
Anschlüsse

Buchsen	Eingang/ Ausgang/ Typ	Impedanz	Pegel/ Grenzpegel
Phono	E/Chinch	47 Kohms	2.5 mV/140 mV
CD	E/Chinch	47 Kohms	150 mV/6 V
Aux	E/Chinch	47 Kohms	150 mV/–
Tuner	E/Chinch	47 Kohms	150 mV/–
Tape 1	E/Chinch	47 Kohms	150 mV/–
Tape 2	E/Chinch	47 Kohms	150 mV/–

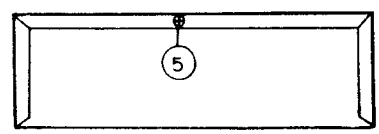
Connections

Sockets	Input/ Output/ Type	Impedance	Level/ Overload
Phono	I/Chinch	47 Kohms	2.5 mV/140 mV
CD	I/Chinch	47 Kohms	150 mV/6 V
Aux	I/Chinch	47 Kohms	150 mV/–
Tuner	I/Chinch	47 Kohms	150 mV/–
Tape 1	I/Chinch	47 Kohms	150 mV/–
Tape 2	I/Chinch	47 Kohms	150 mV/–

EINBAU – AUSBAU / ASSEMBLY – DIASSEMBLY



Seitenansichten / Side View

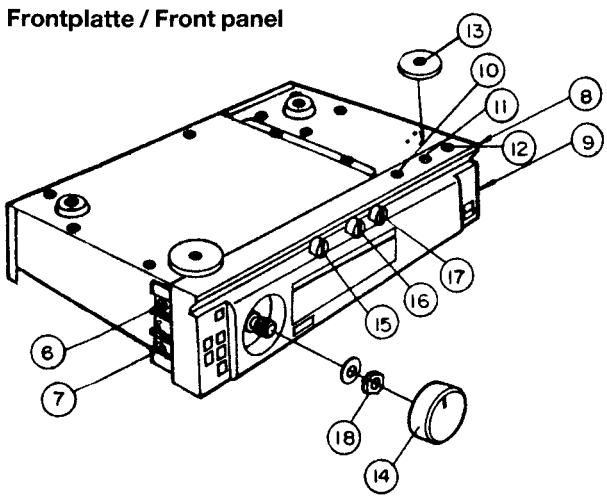


Rückseitenansicht / Rear View

Gehäuseoberteil / Top lid

4 Schrauben (1, 2, 3, 4) an den Seiten und 1 Schraube (5) an der Rückseite berücksichtigen. /
Have regards to 4 screws (1, 2, 3, 4) at sides and one screw (5) at rear side.

Frontplatte / Front panel



Bodenansicht / Bottom View

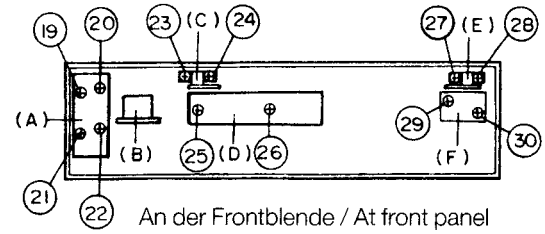
4 Schrauben (6, 7, 8, 9) an den Seiten und
4 Schrauben (10, 11, 12, 13) am Bodenbereich berücksichtigen.
Den Lautstärkeknopf (14), den Balanceknopf (15), den Trebleknopf (16) und den Bassknopf (17) zur Frontplatte berücksichtigen.
Die Steckverbindungen zur Verstärkerplatine berücksichtigen. /
Have regards to 4 screws (6, 7, 8, 9) at sides,
4 screws (10, 11, 12, 13) at bottom area,
the volume knob (14), the balance knob (15),
the treble knob (16), the bass knob (17)
from front panel and connectors from amplifier p.c.b.

Tastenfeldplatine / Key p.c.b. (A)

4 Schrauben (19, 20, 21, 22) berücksichtigen. /
Have regards to 4 screws (19, 20, 21, 22).

Lautstärkeplatine / Volume p.c.b. (B)

Die Nut (18) an der Lautstärke berücksichtigen. /
Have regards to nut (18) of volume.



An der Frontblende / At front panel

Loudnessplatine / Loudness p.c.b. (C)

2 Schrauben (23, 24) berücksichtigen. /
Have regards to 2 screws (23, 24).

Lampenplatine / Lamp p.c.b. (D)

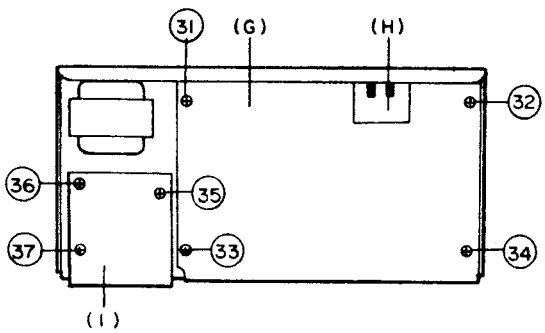
2 Schrauben (25, 26) berücksichtigen. / Have regards to 2 screws (25, 26).

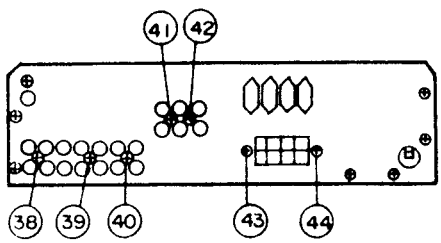
Netzschalterplatine / Power switch p.c.b. (E)

2 Schrauben (27, 28) berücksichtigen. / Have regards to 2 screws (27, 28).

Fernbedienungsplatine / Remote control p.c.b. (F)

2 Schrauben (29, 30) berücksichtigen. / Have regards to 2 screws (29, 30).





Rückseite / Rear View

Verstärkerplatine / Amplifier p.c.b. (G)

4 Schrauben (31, 32, 33, 34) berücksichtigen. /
Have regards to 4 screws (31, 32, 33, 34).

5 Schrauben (38, 39, 40, 43, 44) an der Geräterückseite berücksichtigen. /
Have regards to 5 screws (38, 39, 40, 43, 44) at rear side.

Steckverbindungsplatine / Connectors p.c.b. (H)

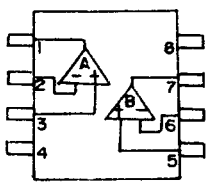
2 Schrauben (41, 42) berücksichtigen. /
Have regards to 2 screws (41, 42).

Lautsprecherumschaltplatine / Speaker switch p.c.b. (I)

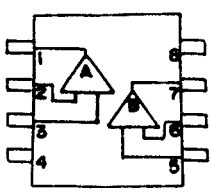
3 Schrauben (35, 36, 37) berücksichtigen. /
Have regards to 3 screws (35, 36, 37).

IC-BLOCKSCHALTBILDER / IC-BLOCK DIAGRAM

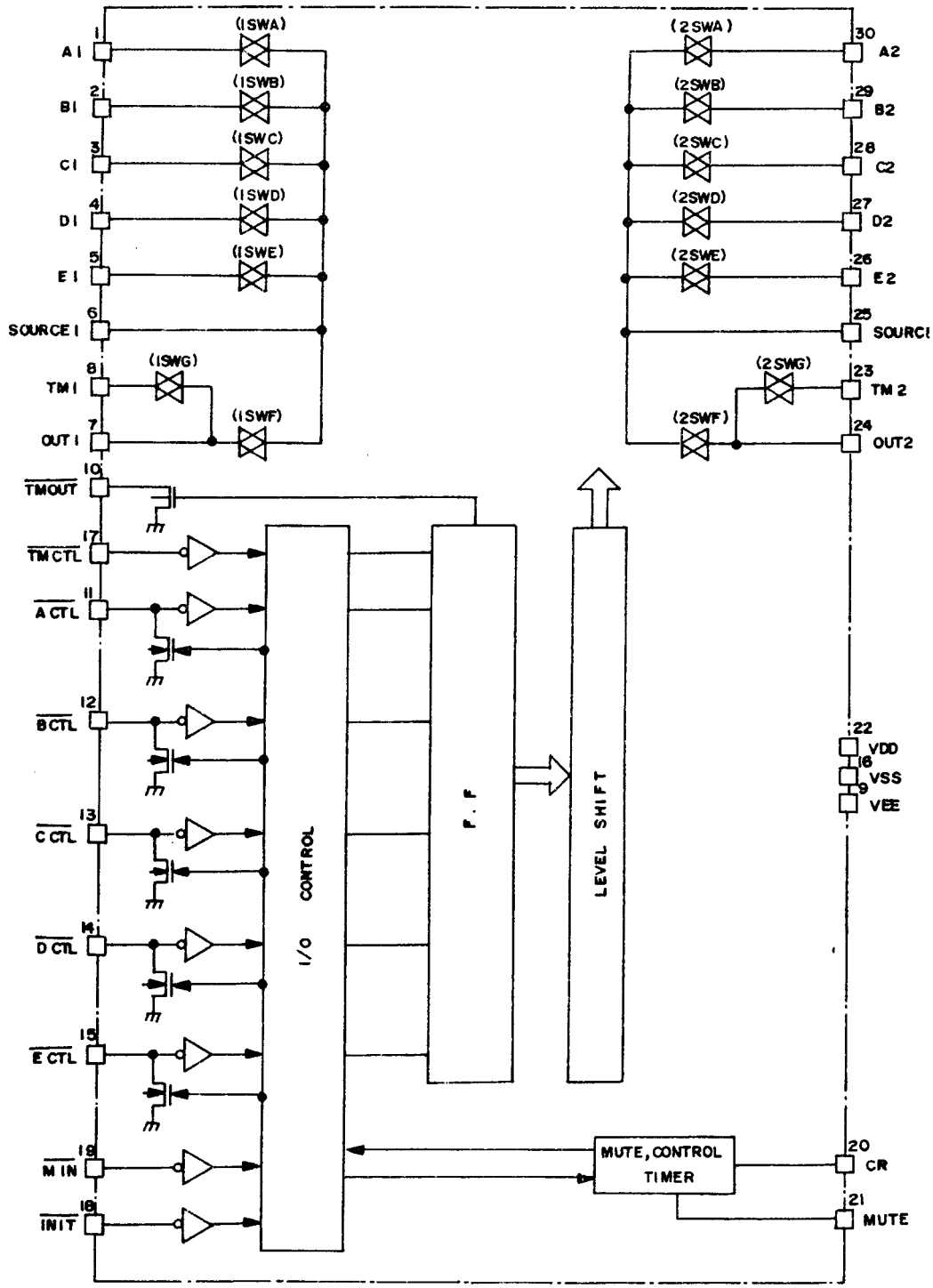
NJM4558DD



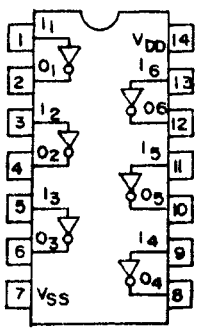
NJM4560D



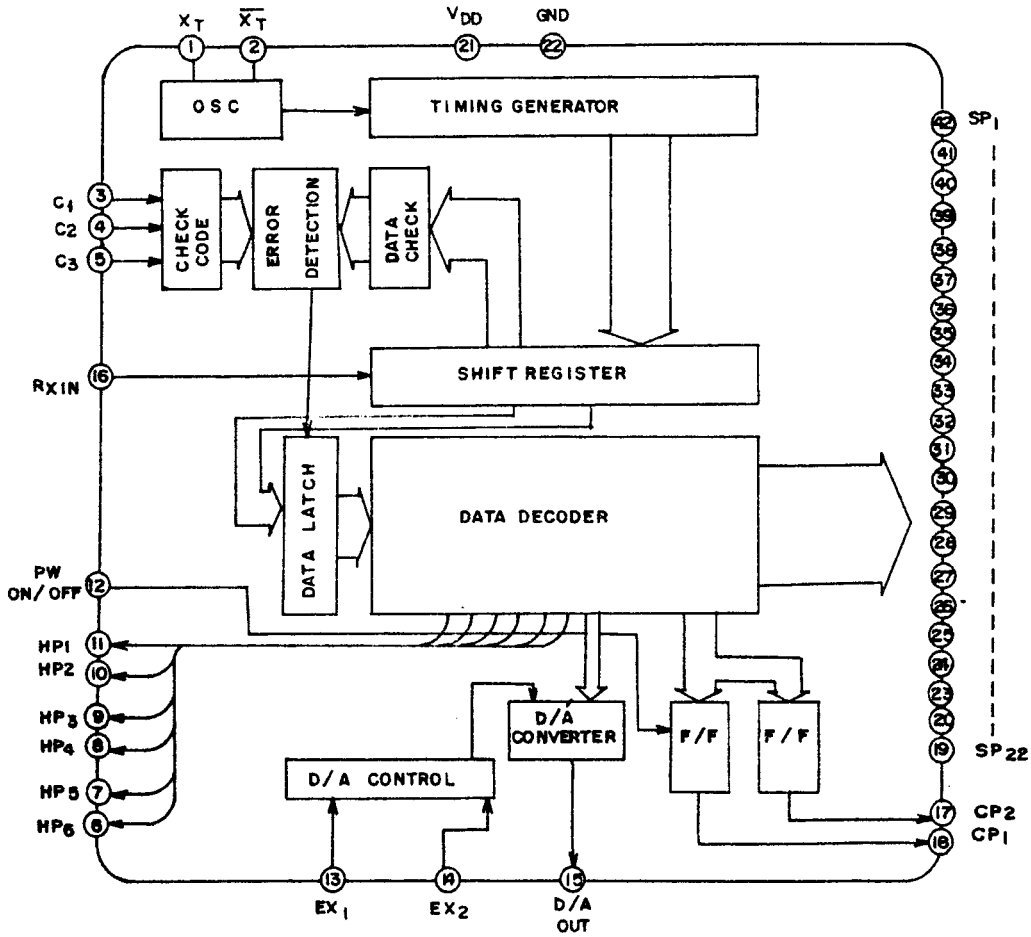
LC7818



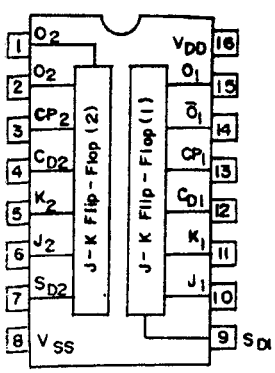
GD4069UB



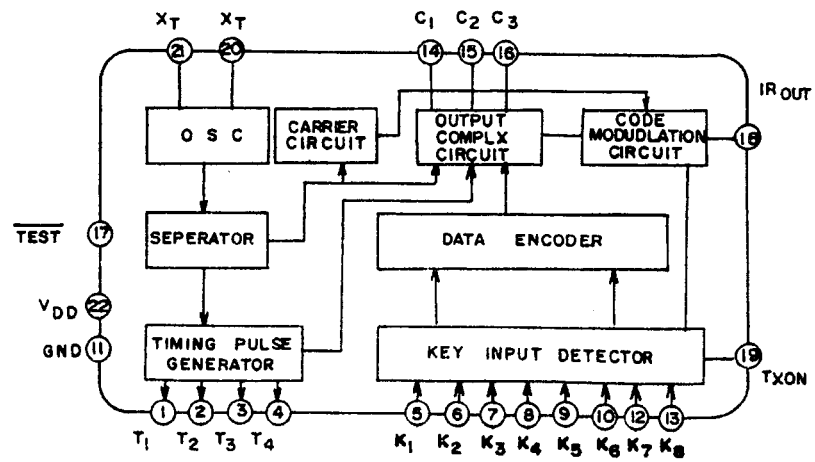
TC9134P



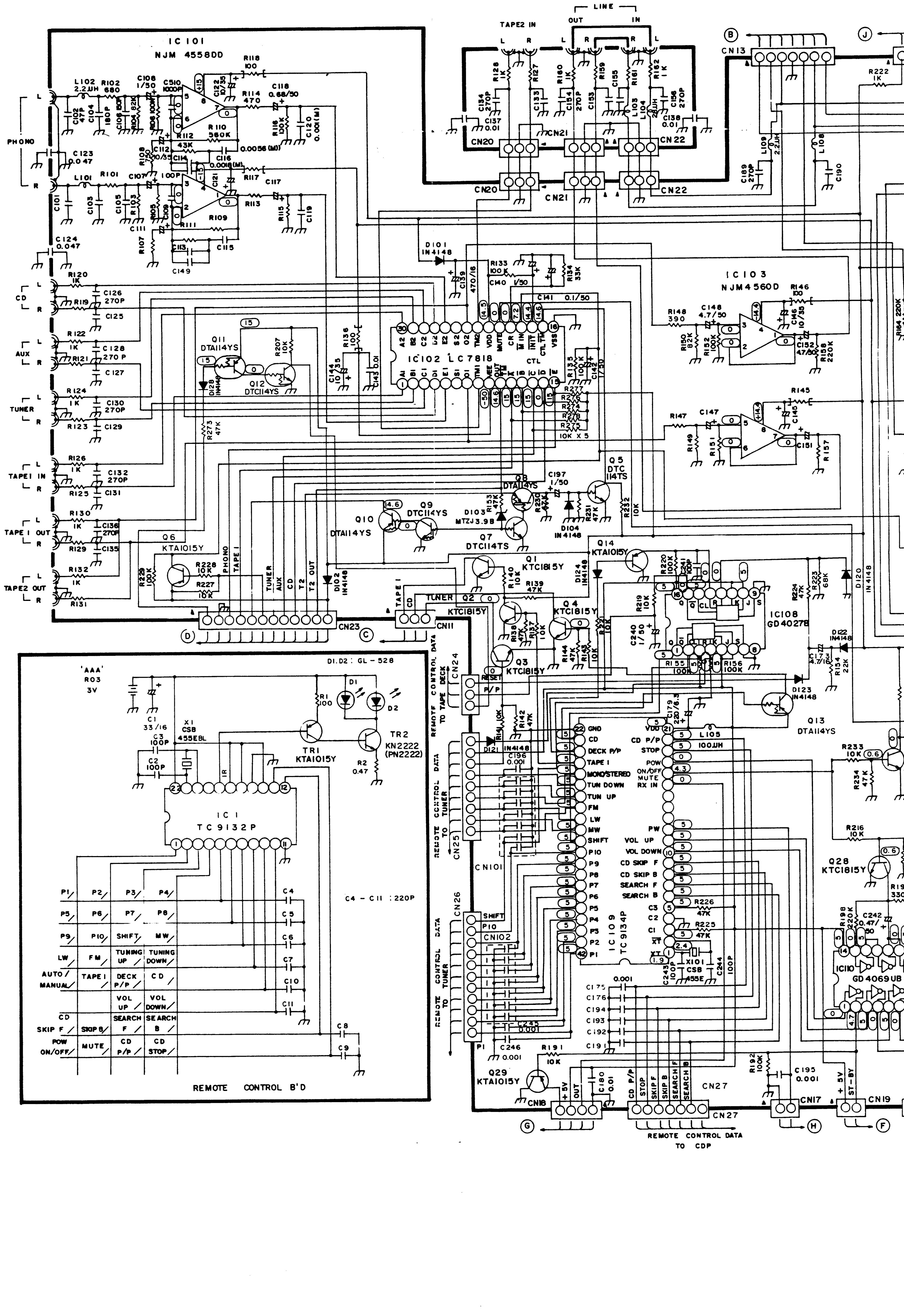
GD4027UB



TC9132P

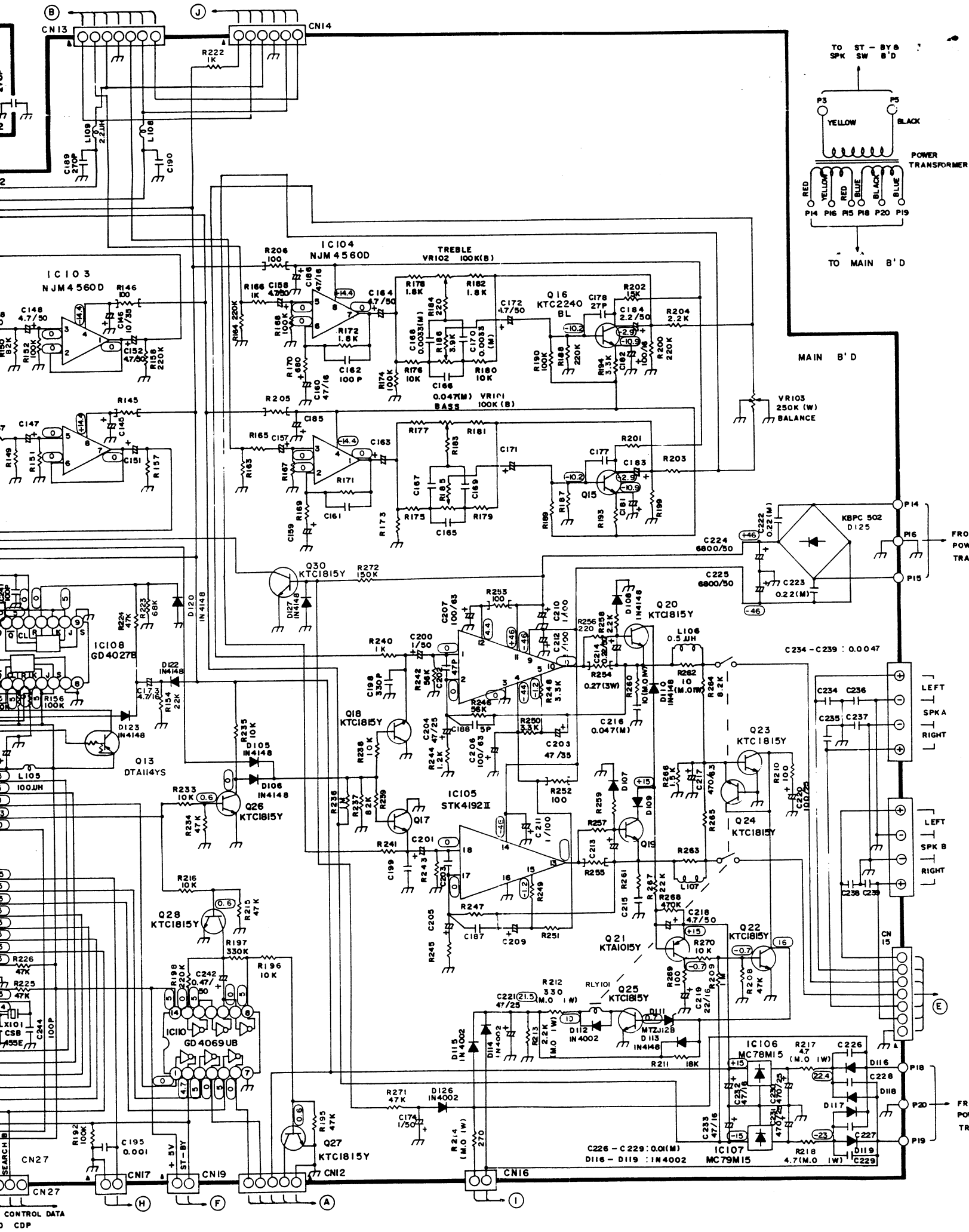


CIRCUIT DIAGRAM MODEL NO: RV-300

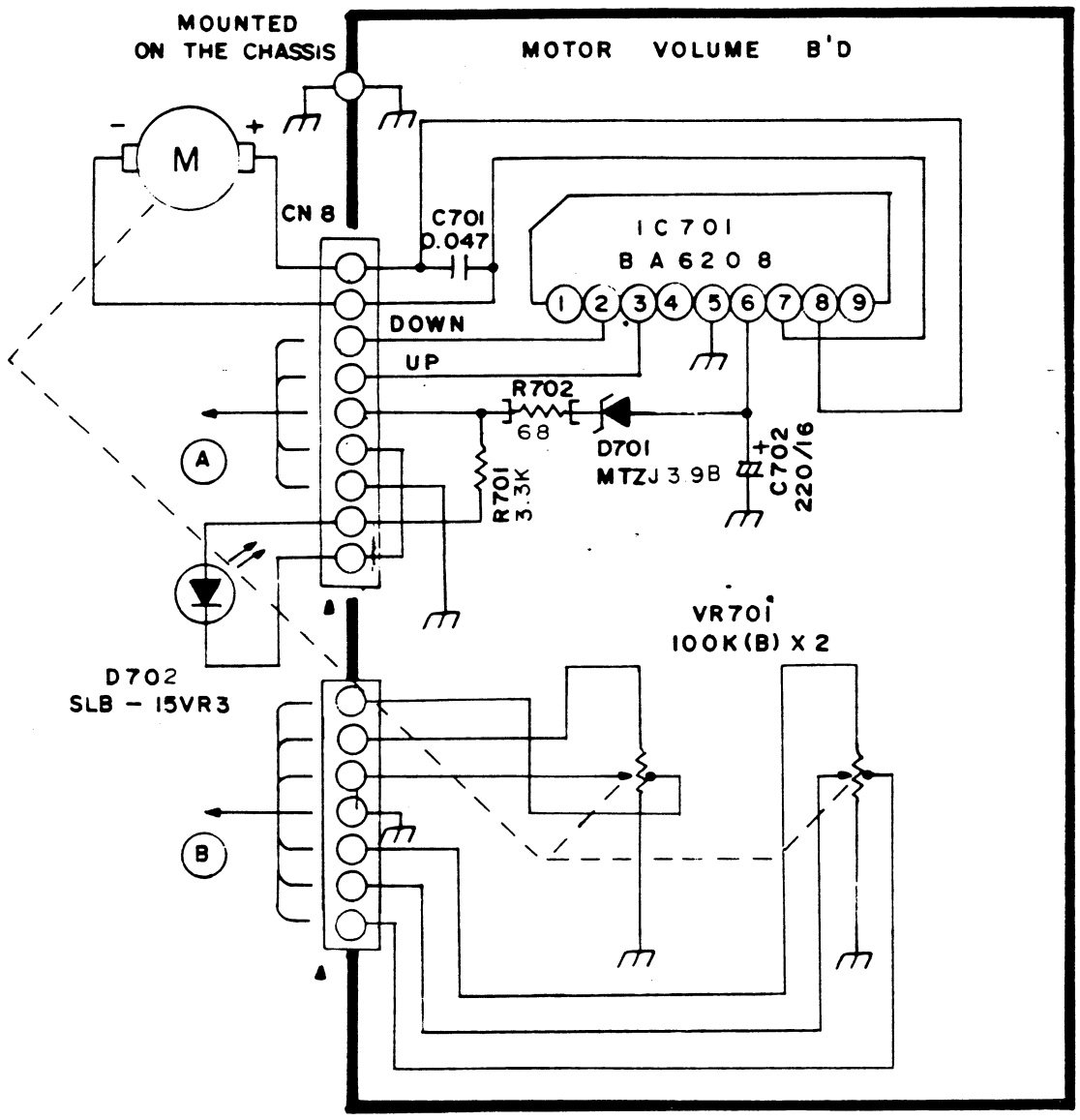

IC101
NJM 4558DD
PHONO
CD
AUX
TUNER
TAPE1 IN
TAPE 1 OUT
TAPE2 OUT
TAPE2 IN
LINE
OUT
IN
CN20
CN21
CN22
CN13
IC102 LC7818
IC103
NJM4560D
IC108
GD4027B
IC109
TC9134P
IC110
GD 4069UB
CN23
CN11
CN24
CN25
CN26
CN27
CN17
CN18
CN19
REMOTE CONTROL DATA TO TAPE DECK
REMOTE CONTROL DATA TO TUNER
REMOTE CONTROL DATA TO CDP
IC1
TC9132P
D1.D2 : GL-528
C4 - C11 : 220P
REMOTE CONTROL B'D

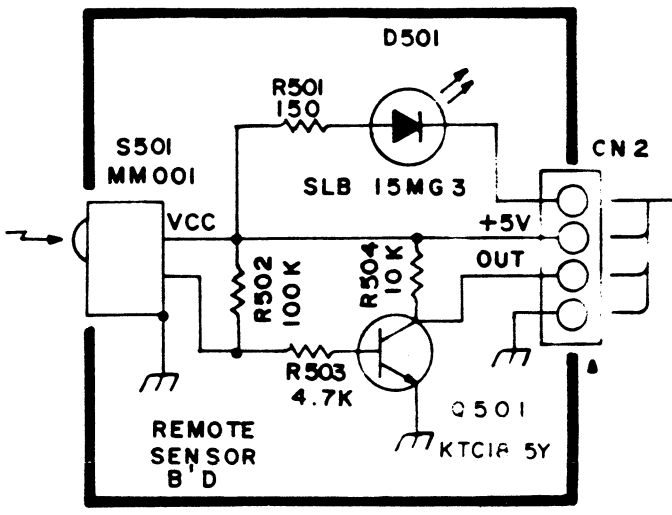
NOTES

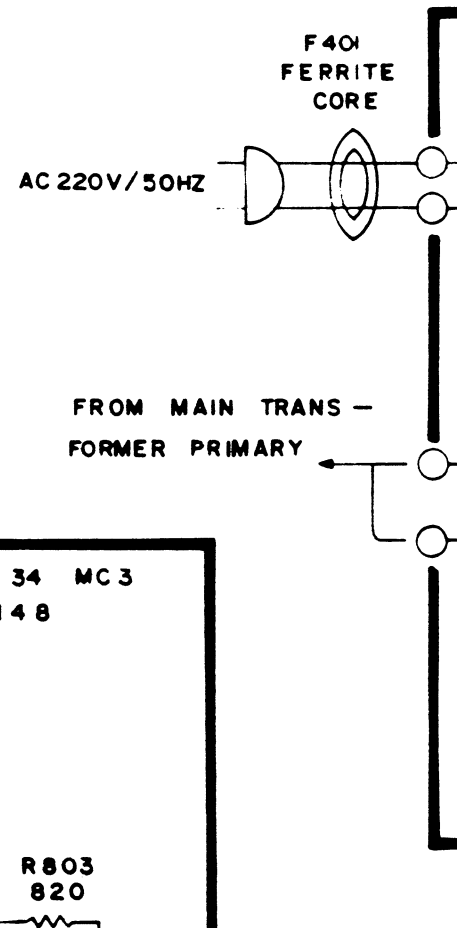
1. ALL RESISTANCES ARE 1/6W, UNLESS NOTED OTHERWISE VALUES ARE IN OHMS.
2. ALL CAPACITOR VALUES ARE IN μF.
3. VOLTAGE READINGS TO COMMON GROUND ARE MEASURED WITH V.T.V.M. UNDER NO SIGNAL.
4. THIS SCHEMATIC DIAGRAM MIGHT BE MODIFIED WITH DEVELOPMENT OF TECHNOLOGY.
5. THE NUMERICAL VALUES IN OVAL ⬭ ARE INDICATING THE VOLTAGE RESPECTIVELY.

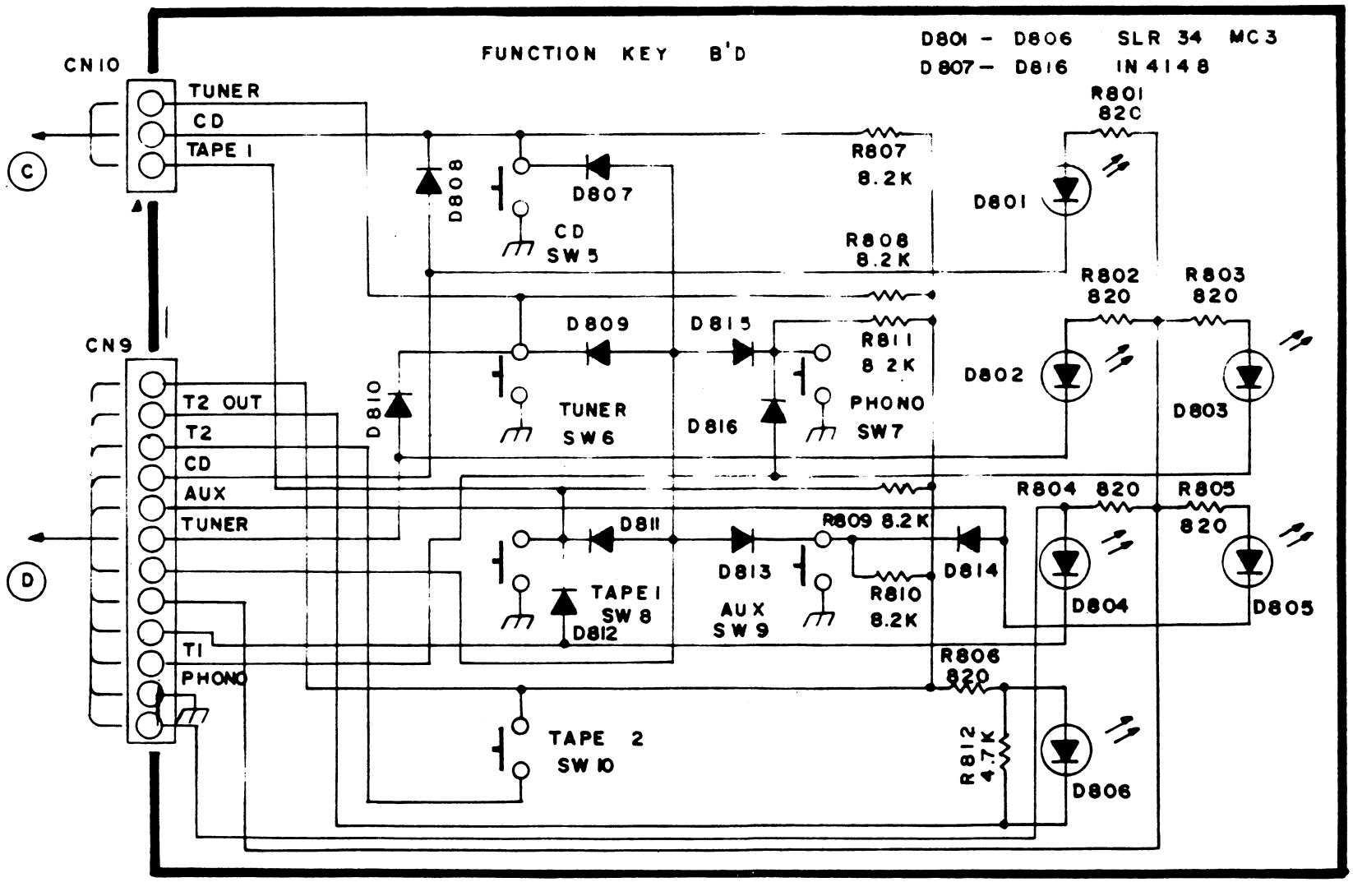


SCHEMATIC DIAGRAM FOR RV-300 (SUB PART)









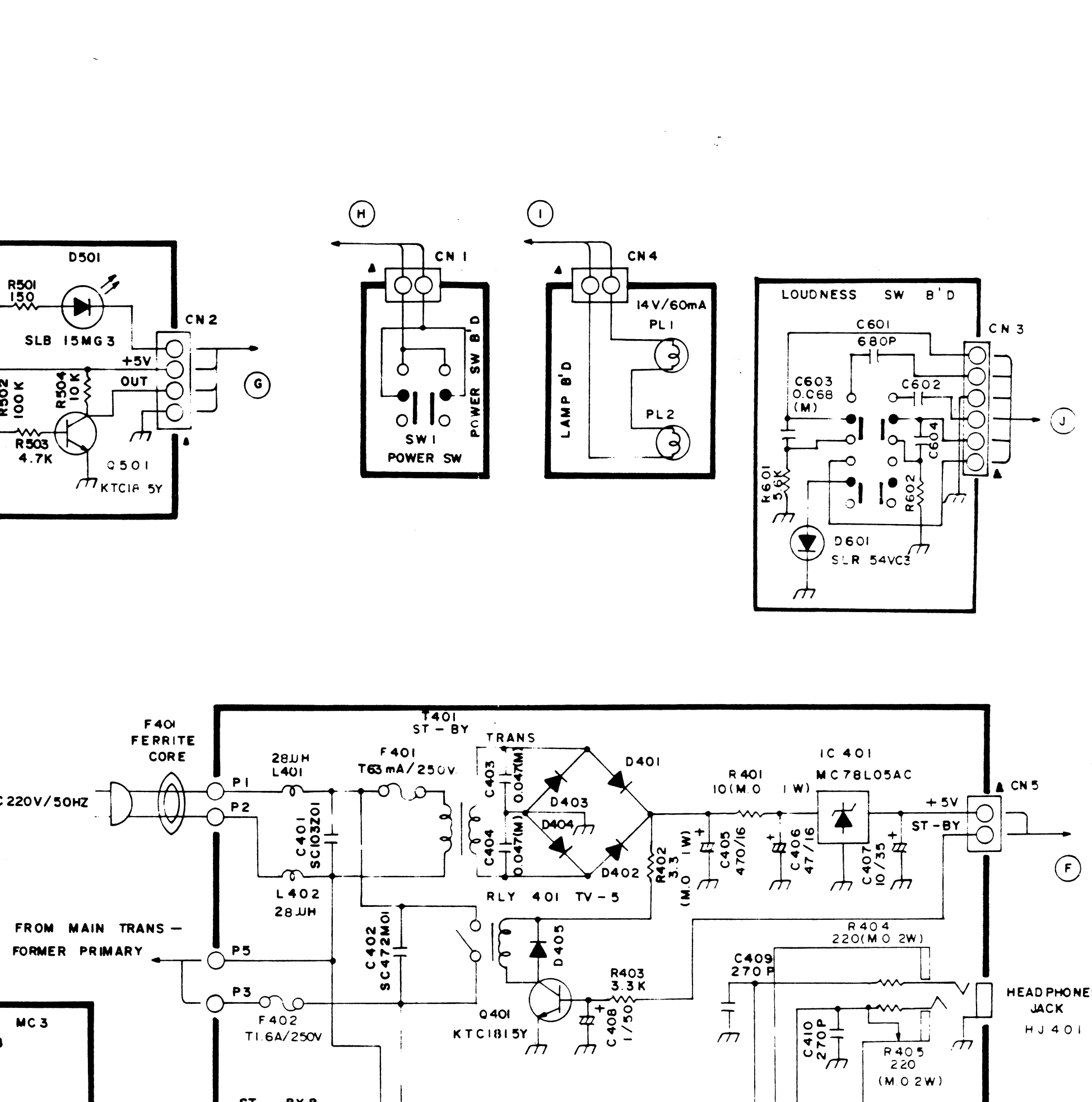
D501
R501
150
SLB 15MG3
CN2
+5V
OUT
R502
100K
R504
10K
R503
4.7K
Q501
KTC1A 5Y
G

H
CN1
POWER SW B'D
SW1
POWER SW

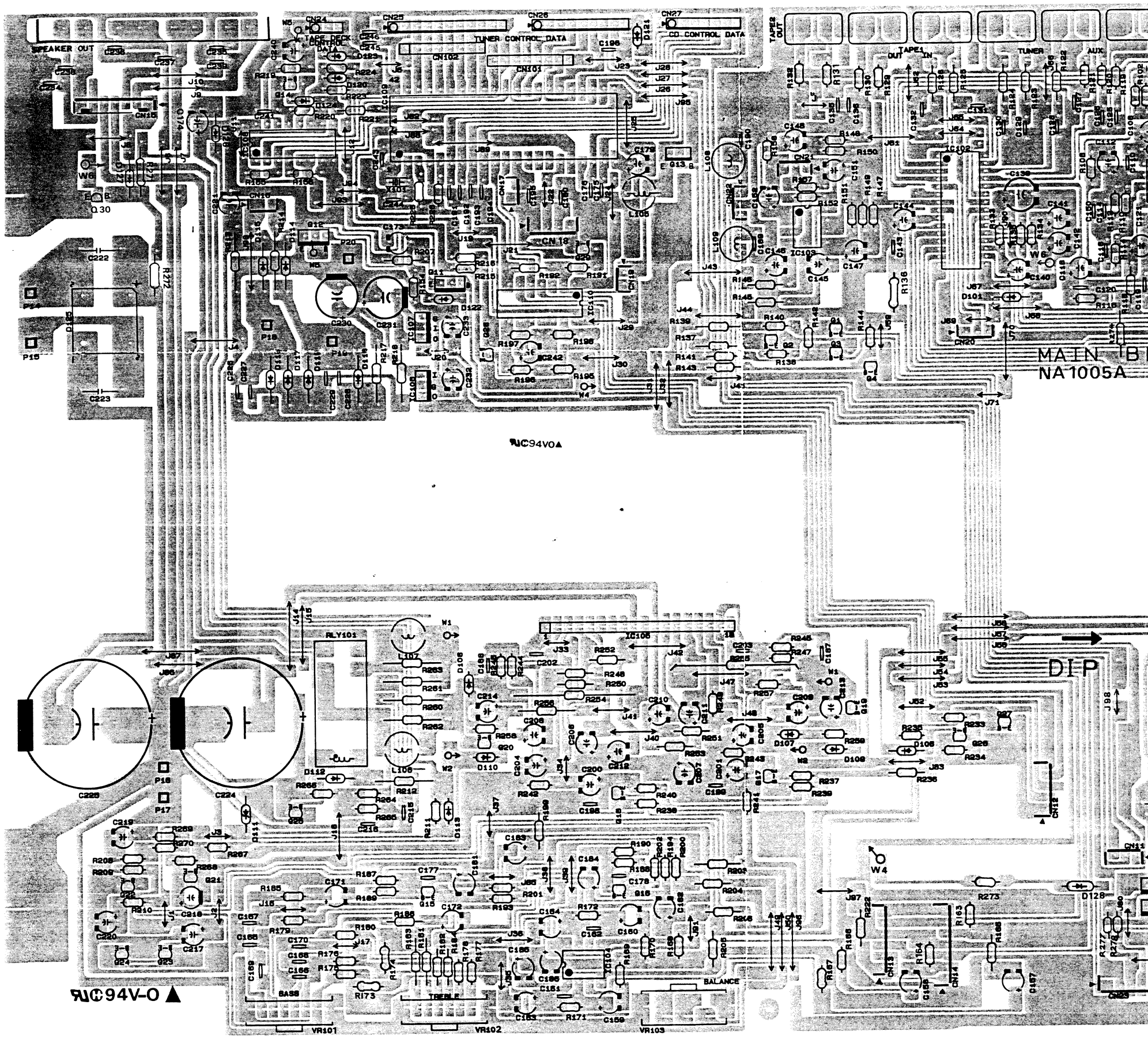
I
CN4
14V/60mA
PL1
PL2
LAMP B'D

LOUDNESS SW B'D
C601
680P
CN3
C603
0.068
(M)
C602
C604
R601
5.6K
R602
D601
SLR 54VC3
J

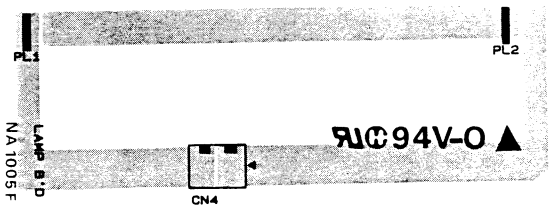
MC3
D803
20
03
D805
05
20


F401
FERRITE
CORE
T401
ST - BY
TRANS
28UH
L401
F401
T63mA/250V
C403
0.047(M)
C404
0.047(M)
D401
D403
D404
D402
IC 401
MC78L05AC
R401
10(M.O 1W)
CN5
+5V
ST-BY
F
C220V/50HZ
P1
P2
C401
SC103Z01
L402
28UH
RLY 401 TV-5
R402
3.3
(M.O 1W)
C405
470/16
C406
47/16
C407
10/35
FROM MAIN TRANS-
FORMER PRIMARY
P5
P3
C402
SC472M01
D405
R404
220(M.O 2W)
C409
270P
R403
3.3K
Q401
KTC1815Y
C408
1/50
HEADPHONES
JACK
HJ401
C410
270P
R405
220
(M.O 2W)
F402
T1.6A/250V
ST-BY&
SPK SW B'D
D401 -- D405 : IN4002
P4
P6
CN6
E
P12
P13
L701
28UH
L702
28UH
ON
OFF
OUTLET
701
702
703
704
AC OUTLET B'D
SW4
SW3
SPK A
SPK B

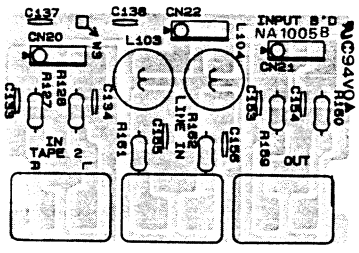
MODEL RV-300 (SUB PCB)



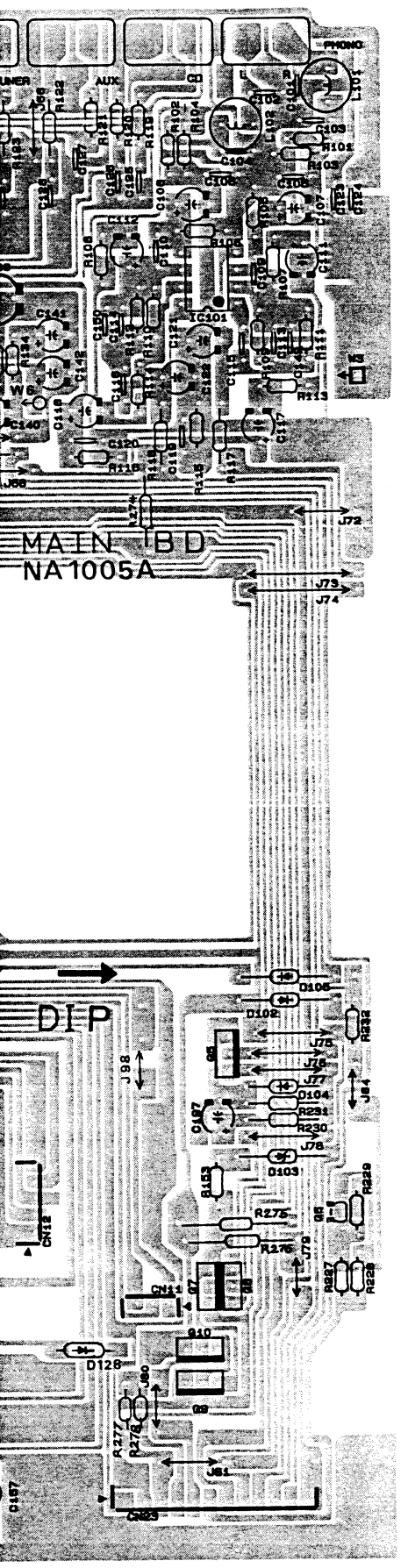
MAIN P.C.B

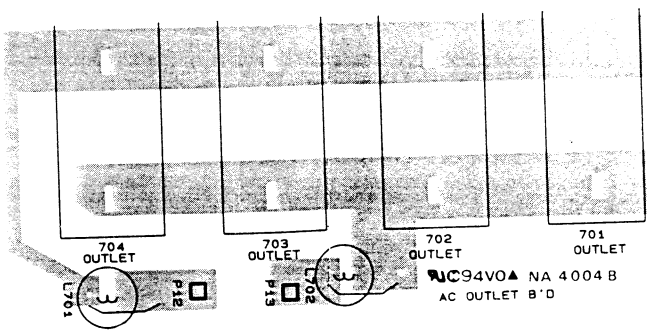


LAMP P.C.B

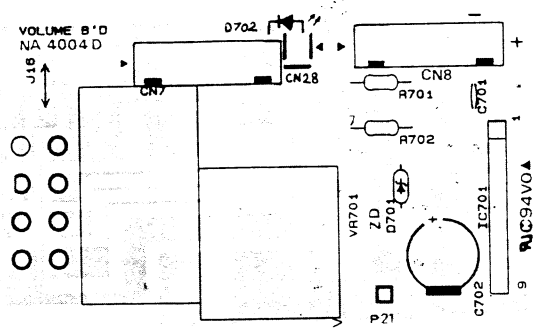


INPUT P.C.B

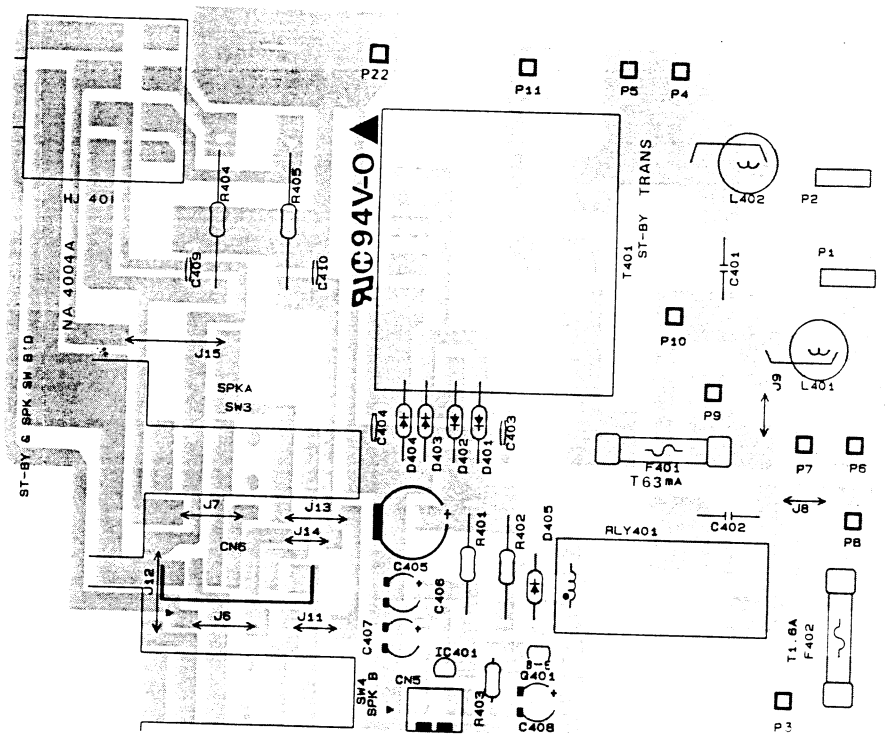




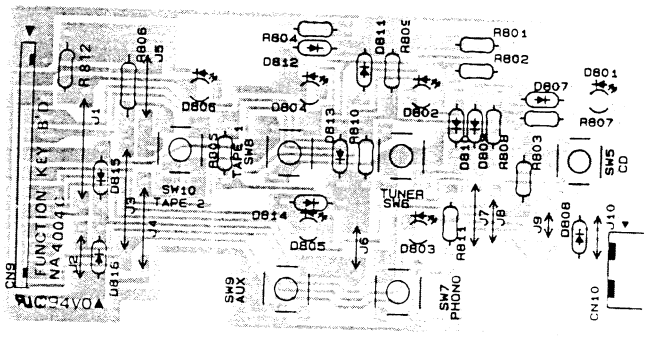
OUTLET P.C.B



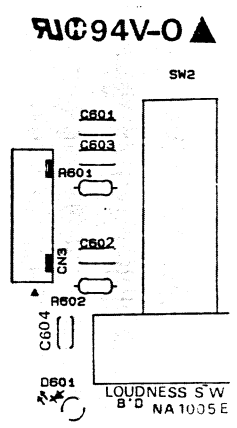
VOLUME P.C.B



SPEAKER S/W P.C.B

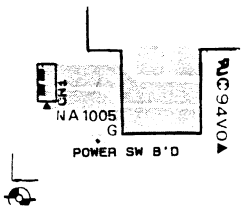


FUNCTION KEY P.C.B

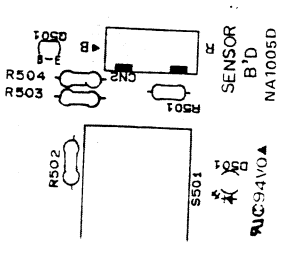


LOUDNESS S/W P.C.B

LED P.C.B

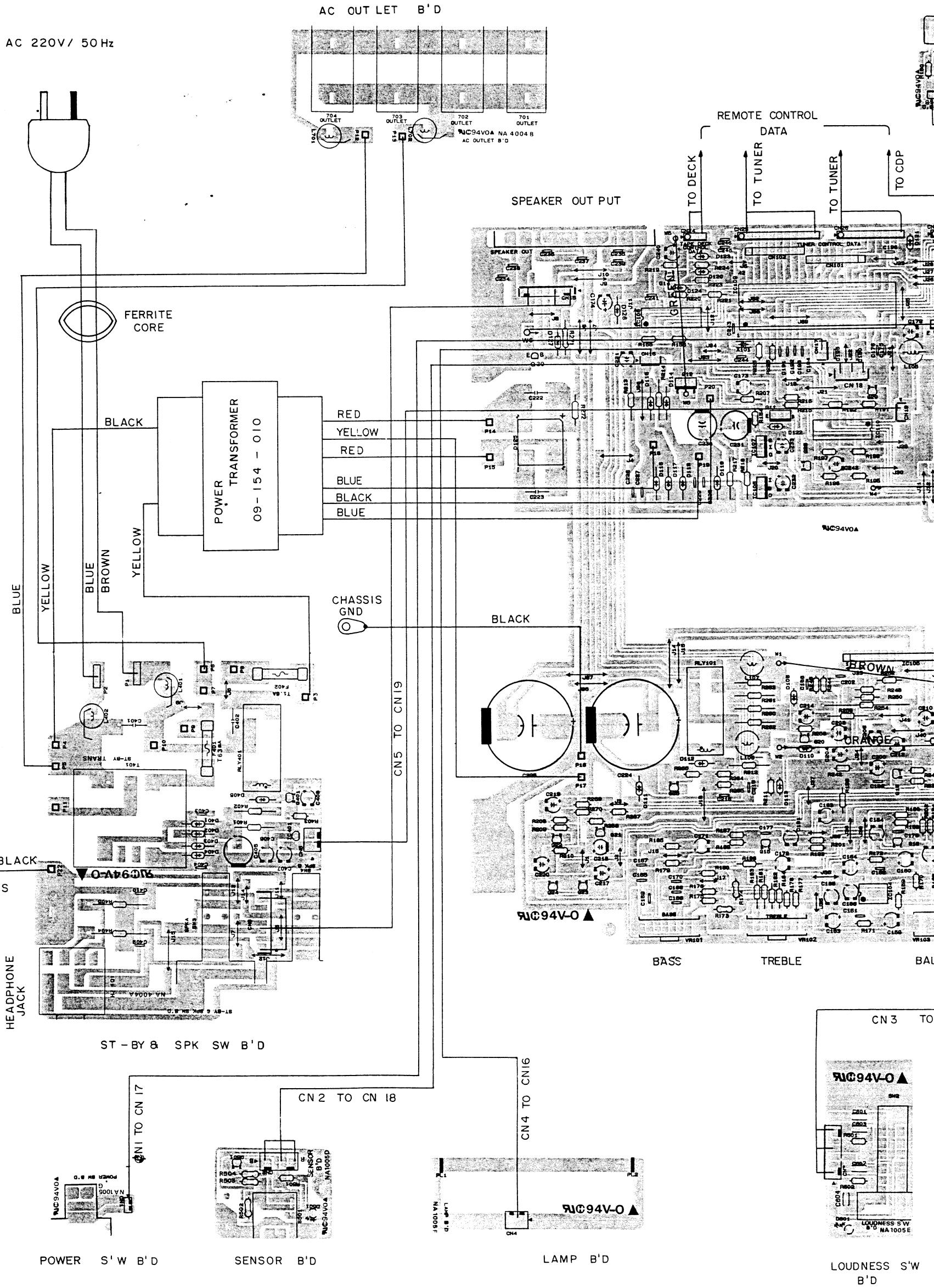


POWER S/W P.C.B



SENSOR P.C.B

WIRING DIAGRAM (MODEL NO: RV-300)



JUMPER PLUG

LINE IN B'D

PHONO
GND TERMINAL

REMOTE CONTROL
DATA

TO DECK

TO TUNER

TO TUNER

TO CDP

T PUT

BLACK

BLACK

WHITE

MAIN BD
NA1005A

YELLOW

MAIN B'D

BROWN

DIP

ORANGE

CNIO TO CNII

CN18 TO CN12

RED

BLUE

CN3 TO CN13

CN7 TO CN14

BLACK

CHASSIS
GND

GRAY

WHITE

VOLUME

CN 9 TO CN23

FUNCTION KEY B'D

BASS

TREBLE

BALANCE

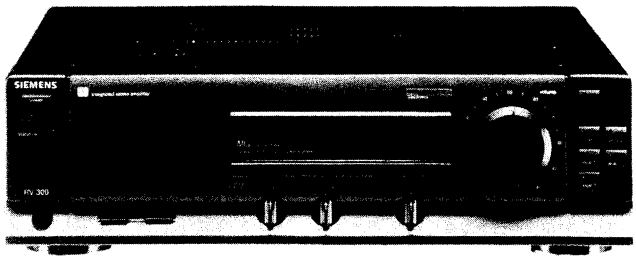
LOUDNESS S'W
B'D

VOL LED B'D

VOLUME B'D

SIEMENS

SIEM-01160



Verstärker RV300N4
Amplifier RV300N4

Kundendienstschrift-Ergänzung
Service manual

+ 848 # 1024036

ALLGEMEINE TECHNISCHE ANGABEN

Netzteil

Energieversorgung: 220 V/50 Hz
Max. Energiebedarf: 240 Wh
Sicherungen: 1.6 A/250 V
63 mA/250 V

Verstärker

NF-Ausgangsleistung (1 KHz/K3 = 0.9 %) = 2 X > 50 W/8 Ohm
Verzerrungen bei halber Sinusleistung: < 0.1 %
Übersprechdämpfung (20 Hz . . . 20 KHz): > 40 dB

Funktion	Frequenzgang	Signal-Rausch-abstand	Signal-Brumm-abstand
Phono	30 Hz . . . 20 KHz	> 65 dB	> 60 dB
CD	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Aux	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tuner	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tape 1	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tape 2	20 Hz . . . 40 KHz	> 85 dB	> 80 dB

GENERAL TECHNICAL DATA

Power supply unit

Power supply: 220 V/50 Hz
Power consumption: 240 Wh
Fuses: 1.6 A/250 V
63 mA/250 V

Amplifier

AF-Power output (1 KHz/K3 = 0.9 %) = 2 X > 50 W/8 Ohm
Distortion at ½ sine power: < 0.1 %
Crosstalk attenuation (20 Hz . . . 20 KHz): > 40 dB

Function	Frequency -response	S/N -ratio	Signal -to-hum ratio
Phono	30 Hz . . . 20 KHz	> 65 dB	> 60 dB
CD	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Aux	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tuner	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tape 1	20 Hz . . . 40 KHz	> 85 dB	> 80 dB
Tape 2	20 Hz . . . 40 KHz	> 85 dB	> 80 dB

Anschlüsse

Buchsen	Eingang/ Ausgang/ Typ	Impedanz	Pegel/ Grenzpegel
Phono	E/Chinch	47 Kohms	2.5 mV/140 mV
CD	E/Chinch	47 Kohms	150 mV/6 V
Aux	E/Chinch	47 Kohms	150 mV/–
Tuner	E/Chinch	47 Kohms	150 mV/–
Tape 1	E/Chinch	47 Kohms	150 mV/–
Tape 2	E/Chinch	47 Kohms	150 mV/–

Connections

Sockets	Input/ Output/ Type	Impedance	Level/ Overload
Phono	I/Chinch	47 Kohms	2.5 mV/140 mV
CD	I/Chinch	47 Kohms	150 mV/6 V
Aux	I/Chinch	47 Kohms	150 mV/–
Tuner	I/Chinch	47 Kohms	150 mV/–
Tape 1	I/Chinch	47 Kohms	150 mV/–
Tape 2	I/Chinch	47 Kohms	150 mV/–

Ausgabe/Issue 90/42 Ident-Nr./Order-No. 53 5403

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MODEL NO : RV - 300N4

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